

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptayvv1621

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	3	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	4	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	5	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	6	JUN 25	CA/CAPLUS and USPAT databases updated with IPC reclassification data
NEWS	7	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	8	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	9	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	10	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS	11	JUL 28	CA/CAPLUS patent coverage enhanced
NEWS	12	JUL 28	EPFULL enhanced with additional legal status information from the EPOline Register
NEWS	13	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS	14	JUL 28	STN Viewer performance improved
NEWS	15	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	16	AUG 13	CA/CAPLUS enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	17	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	18	AUG 15	CAPLUS currency for Korean patents enhanced
NEWS	19	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS	20	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS	21	SEP 25	CA/CAPLUS current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances
NEWS	22	SEP 26	WPIDS, WPINDEX, and WPIX coverage of Chinese and Korean patents enhanced
NEWS	23	SEP 29	IFICLS enhanced with new super search field
NEWS	24	SEP 29	EMBASE and EMBAL enhanced with new search and display fields
NEWS	25	SEP 30	CAS patent coverage enhanced to include exemplified prophetic substances identified in new Japanese-language patents
NEWS	26	OCT 07	EPFULL enhanced with full implementation of EPC2000
NEWS	27	OCT 07	Multiple databases enhanced for more flexible patent number searching

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 17:29:42 ON 14 OCT 2008

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:29:55 ON 14 OCT 2008  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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STRUCTURE FILE UPDATES: 12 OCT 2008 HIGHEST RN 1060442-20-7  
DICTIONARY FILE UPDATES: 12 OCT 2008 HIGHEST RN 1060442-20-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

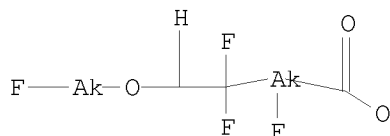
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\10562730-cl1-2nd.str

L1 STRUCTURE UPLOADED

=> d l1  
L1 HAS NO ANSWERS  
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

GENERIC GROUP NOT VALID HERE

Generic groups may not be used in these circumstances:

1. Any generic group node (e.g., Hy) in a ring.
2. An Ak node attached to another Ak node.
3. An Ak node with three or more attachments where one or more of the attachments is to a C node.

=>

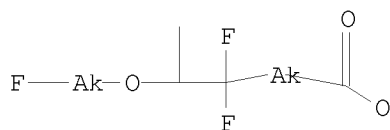
Uploading C:\Program Files\Stnexp\Queries\10562730-cl1-2nd-corrected.str

L2 STRUCTURE UPLOADED

=> d 12

L2 HAS NO ANSWERS

L2 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 12

SAMPLE SEARCH INITIATED 17:32:11 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 13362 TO ITERATE

15.0% PROCESSED 2000 ITERATIONS 0 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 260314 TO 274166  
PROJECTED ANSWERS: 0 TO 0

L3 0 SEA SSS SAM L2

=> s 12 full

FULL SEARCH INITIATED 17:32:15 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 265418 TO ITERATE

100.0% PROCESSED 265418 ITERATIONS 1 ANSWERS  
SEARCH TIME: 00.00.03

L4 1 SEA SSS FUL L2

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	179.74	179.95

FILE 'CAPLUS' ENTERED AT 17:32:25 ON 14 OCT 2008

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FILE COVERS 1907 - 14 Oct 2008 VOL 149 ISS 16  
FILE LAST UPDATED: 12 Oct 2008 (20081012/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s l4 ibib abs hitstr 1-  
MISSING OPERATOR L4 IBIB  
The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

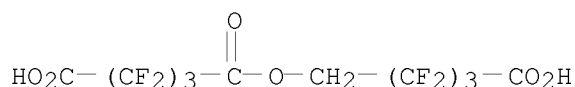
=> s l4 ibib abs hitstr  
MISSING OPERATOR L4 IBIB  
The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s l4  
L5 1 L4

=> d l5 ibib abs hitstr

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1978:529011 CAPLUS  
DOCUMENT NUMBER: 89:129011  
ORIGINAL REFERENCE NO.: 89:19953a,19956a  
TITLE: Reduction of perfluorocarboxylic acid anhydrides to 1,1-dihydroperfluoro alcohols  
AUTHOR(S): Kolomnikova, G. D.; Kalinkin, M. I.; Tskhurbaeva, Z. Ts.; Parnes, Z. N.; Kursanov, D. N.  
CORPORATE SOURCE: Inst. Elementoorg. Soedin., Moscow, USSR  
SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1978), (7), 1681-3  
CODEN: IASKA6; ISSN: 0002-3353  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian  
AB Et3SiH reduced (RCO)2O [I; R = CF3, C3F7; R2 = (CF2)3] to the corresponding RCH2OH and HO2C(CF3)2CH2OH in 60-80% yield and lesser amts. of RCH2O2CR. Hydrogenation of I (R = same) with PtO2, (Ph3P)2PtCl2 or Ru(O2CCF3)3 gave lower yields of same products.  
IT 67710-61-6P  
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
RN 67710-61-6 CAPLUS  
CN Pentanedioic acid, hexafluoro-, mono(4-carboxy-2,2,3,3,4,4-

hexafluorobutyl) ester (9CI) (CA INDEX NAME)



=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

7.37

187.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-0.80

-0.80

FILE 'REGISTRY' ENTERED AT 17:34:52 ON 14 OCT 2008

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STRUCTURE FILE UPDATES: 12 OCT 2008 HIGHEST RN 1060442-20-7

DICTIONARY FILE UPDATES: 12 OCT 2008 HIGHEST RN 1060442-20-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

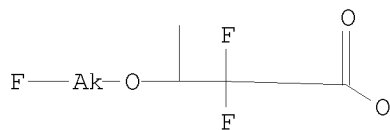
Uploading C:\Program Files\Stnexp\Queries\10562730-simplest.str

L6 STRUCTURE UPLOADED

=> d 16

L6 HAS NO ANSWERS

L6 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 16

SAMPLE SEARCH INITIATED 17:35:18 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 585 TO ITERATE

100.0% PROCESSED 585 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 10249 TO 13151

PROJECTED ANSWERS: 4 TO 200

L7 4 SEA SSS SAM L6

=> s 16 full

FULL SEARCH INITIATED 17:35:23 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 11255 TO ITERATE

100.0% PROCESSED 11255 ITERATIONS

54 ANSWERS

SEARCH TIME: 00.00.01

L8 54 SEA SSS FUL L6

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.36

365.68

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-0.80

FILE 'CAPLUS' ENTERED AT 17:35:27 ON 14 OCT 2008

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FILE COVERS 1907 - 14 Oct 2008 VOL 149 ISS 16

FILE LAST UPDATED: 12 Oct 2008 (20081012/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s 18

L9 17 L8

=> d 19 ibib abs hitstr 1-

YOU HAVE REQUESTED DATA FROM 17 ANSWERS - CONTINUE? Y/(N):y

L9 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:73870 CAPLUS  
DOCUMENT NUMBER: 148:145210  
TITLE: Explosion taming surfactants for the production of  
perfluoropolymers  
INVENTOR(S): Hintzer, Klaus; Jurgens, Michael; Kaspar, Harald;  
Maurer, Andreas R.; Schwertfeger, Werner; Zipplies,  
Tilman C.  
PATENT ASSIGNEE(S): Germany  
SOURCE: U.S. Pat. Appl. Publ., 12pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20080015319	A1	20080117	US 2006-457236	20060713
PRIORITY APPLN. INFO.:			US 2006-457236	20060713

OTHER SOURCE(S): CASREACT 148:145210

AB A process comprises polymerizing tetrafluoroethylene in an aqueous emulsion in the

presence of a non-telogenic surfactant having an anionic portion with the general formula  $R_fOLCO_2$ , wherein  $R_f$  is selected from a partially fluorinated alkyl group, a perfluorinated alkyl group, a partially fluorinated alkyl group interrupted by one or more oxygen atoms, and a perfluorinated alkyl group interrupted by one or more oxygen atoms, wherein  $R_f$  has from 1 to 10 carbon atoms; and L is an alkylene group having the general formula  $(CX_2)_n$  wherein each X is independently selected from  $R_f$ , fluorine, and hydrogen and n is selected from 1 to 5, with the proviso that the surfactant contains at least one unit selected from a  $CH_2$  unit and a CHF unit. Also provided are aqueous dispersions comprising these surfactants and methods of coating substrates with the aqueous dispersions.

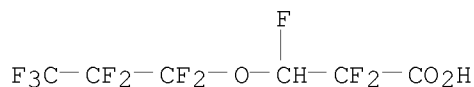
IT 824393-44-4P 958445-52-8P 958445-54-0P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(explosion taming surfactants for the production of perfluoropolymers)

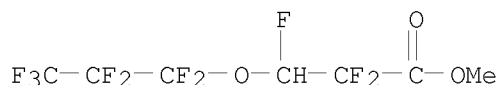
RN 824393-44-4 CAPLUS

CN Propanoic acid, 2,2,3-trifluoro-3-(1,1,2,2,3,3,3-heptafluoropropoxy)-, ammonium salt (1:1) (CA INDEX NAME)

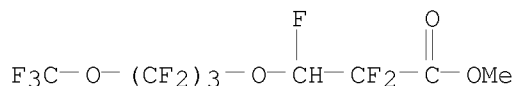


RN 958445-52-8 CAPLUS

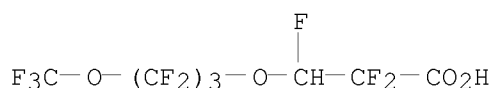
CN Propanoic acid, 2,2,3-trifluoro-3-(1,1,2,2,3,3,3-heptafluoropropoxy)-, methyl ester (CA INDEX NAME)



RN 958445-54-0 CAPLUS  
CN Propanoic acid, 2,2,3-trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]-, methyl ester (CA INDEX NAME)



IT 958445-44-8P  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(explosion taming surfactants for the production of perfluoropolymers)  
RN 958445-44-8 CAPLUS  
CN Propanoic acid, 2,2,3-trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]-, ammonium salt (1:1) (CA INDEX NAME)



L9 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2007:1363510 CAPLUS  
DOCUMENT NUMBER: 148:12745  
TITLE: Coating composition, and preparation of fluoropolymer dispersion coating  
INVENTOR(S): Hintzer, Klaus; Jurgens, Michael; Kaspar, Harald; Koenigsmann, Herbert; Lochhaas, Kai Helmut; Maurer, Andreas R.; Schwertfeger, Werner; Zipplies, Tilman; Mayer, Ludwig; Dadalas, Michael C.; Moore, George G. I.; Schulz, Jay F.; Flynn, Richard M.  
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA  
SOURCE: U.S. Pat. Appl. Publ., 17pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
US 20070276068	A1	20071129	US 2006-420431	20060525
WO 2007140091	A1	20071206	WO 2007-US68528	20070509
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.:

US 2006-420431

A 20060525

OTHER SOURCE(S): MARPAT 148:12745

AB A coating composition has (i) an aqueous dispersion of fluoropolymer particles comprising a nonmelt processible polymer of tetrafluoroethylene, (ii) a fluorinated surfactant, (iii) a nonionic nonfluorinated surfactant, and (iv) a nonfluorinated polymer, where the fluorinated surfactant is selected from fluorinated carboxylic acids or salts of the formula  $[RfOLCOO]iXi+$ , where L = linear partially or fully fluorinated alkylene group or an aliphatic hydrocarbon group; Rf = linear partially or fully fluorinated aliphatic group or a linear partially or fully fluorinated

group interrupted with  $\geq 1$  O atoms;  $Xi+$  = cation having the valence i; i = 1, 2 or 3.

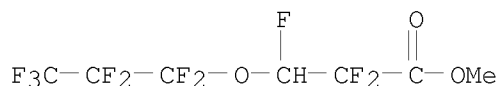
IT 958445-52-8P 958445-54-0P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(coating dispersion composition of tetrafluoroethylene copolymer and suitable fluorosurfactants for cookware)

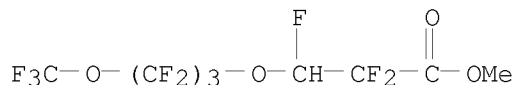
RN 958445-52-8 CAPLUS

CN Propanoic acid, 2,2,3-trifluoro-3-(1,1,2,2,3,3,3-heptafluoropropoxy)-, methyl ester (CA INDEX NAME)



RN 958445-54-0 CAPLUS

CN Propanoic acid, 2,2,3-trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]-, methyl ester (CA INDEX NAME)



IT 824393-44-4P 958445-44-8P

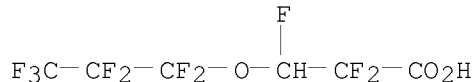
RL: IMF (Industrial manufacture); PKT (Pharmacokinetics); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(polymerization surfactant; coating dispersion composition of tetrafluoroethylene

copolymer and suitable fluorosurfactants for cookware)

RN 824393-44-4 CAPLUS

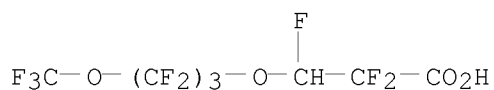
CN Propanoic acid, 2,2,3-trifluoro-3-(1,1,2,2,3,3,3-heptafluoropropoxy)-, ammonium salt (1:1) (CA INDEX NAME)



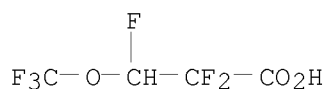
● NH<sub>3</sub>

RN 958445-44-8 CAPLUS

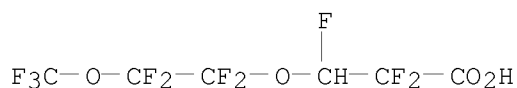
CN Propanoic acid, 2,2,3-trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]-, ammonium salt (1:1) (CA INDEX NAME)



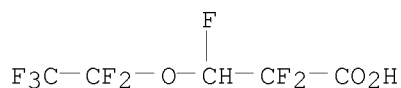
IT 919005-11-1 919005-12-2 919005-13-3  
 919005-14-4 919005-15-5 919005-16-6  
 919005-17-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (polymerization surfactant; coating dispersion composition of  
 tetrafluoroethylene  
 copolymer and suitable fluorosurfactants for cookware)  
 RN 919005-11-1 CAPLUS  
 CN Propanoic acid, 2,2,3-trifluoro-3-(trifluoromethoxy)- (CA INDEX NAME)



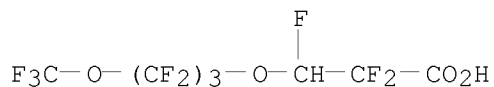
RN 919005-12-2 CAPLUS  
 CN Propanoic acid, 2,2,3-trifluoro-3-[1,1,2,2-tetrafluoro-2-  
 (trifluoromethoxy)ethoxy]- (CA INDEX NAME)



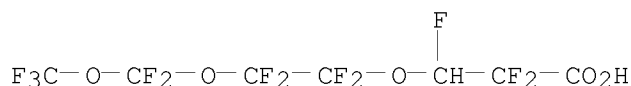
RN 919005-13-3 CAPLUS  
 CN Propanoic acid, 2,2,3-trifluoro-3-(1,1,2,2,2-pentafluoroethoxy)- (CA  
 INDEX NAME)



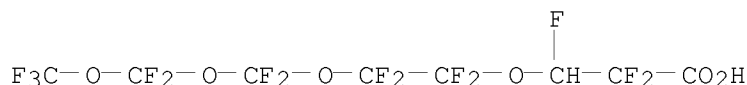
RN 919005-14-4 CAPLUS  
 CN Propanoic acid, 2,2,3-trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-  
 (trifluoromethoxy)propoxy]- (CA INDEX NAME)



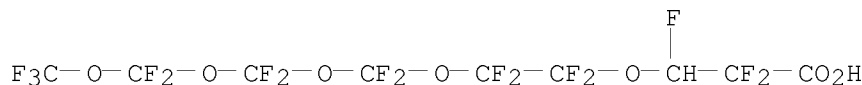
RN 919005-15-5 CAPLUS  
 CN Propanoic acid, 3-[2-[difluoro(trifluoromethoxy)methoxy]-1,1,2,2-  
 tetrafluoroethoxy]-2,2,3-trifluoro- (CA INDEX NAME)



RN 919005-16-6 CAPLUS  
 CN 4,7,9,11-Tetraoxadodecanoic acid, 2,2,3,5,5,6,6,8,8,10,10,12,12,12-tetradecafluoro- (CA INDEX NAME)



RN 919005-17-7 CAPLUS  
 CN 4,7,9,11,13-Pentaoxatetradecanoic acid, 2,2,3,5,5,6,6,8,8,10,10,12,12,14,14,14-hexadecafluoro- (CA INDEX NAME)



L9 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:63480 CAPLUS  
 DOCUMENT NUMBER: 146:143569  
 TITLE: Method of making fluoropolymer dispersion  
 INVENTOR(S): Hintzer, Klaus; Jurgens, Michael; Kaspar, Harald; Koenigsmann, Herbert; Lochhaas, Kai Helmut; Maurer, Andreas R.; Schwertfeger, Werner; Zipplies, Tilman; Mayer, Ludwig; Dadalas, Michael C.; Moore, George G. I.; Schulz, Jay F.; Flynn, Richard M.  
 PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA  
 SOURCE: U.S. Pat. Appl. Publ., 18pp.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070015864	A1	20070118	US 2006-420386	20060525
US 20070149695	A1	20070628	US 2005-275331	20051223
US 20070015937	A1	20070118	US 2006-420377	20060525
US 20070025902	A1	20070201	US 2006-420413	20060525
US 20070027251	A1	20070201	US 2006-420416	20060525
US 20070015865	A1	20070118	US 2006-457500	20060714
US 20070015866	A1	20070118	US 2006-457502	20060714
WO 2007011631	A1	20070125	WO 2006-US27144	20060714
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
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WO 2007011633 A1 20070125 WO 2006-US27146 20060714

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EP 1904538 A1 20080402 EP 2006-787095 20060714

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EP 1904539 A1 20080402 EP 2006-787097 20060714

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US 20070117914 A1 20070524 US 2006-562277 20061121

WO 2007062059 A1 20070531 WO 2006-US45100 20061121

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EP 1951662 A1 20080806 EP 2006-838208 20061121

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US 20070142541 A1 20070621 US 2006-612502 20061219

WO 2007120346 A2 20071025 WO 2006-US62300 20061219

WO 2007120346 A3 20080110

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WO 2007120348 A1 20071025 WO 2006-US62312 20061219

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,

CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM

EP 1963247 A2 20080903 EP 2006-850995 20061219  
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 IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

EP 1963380 A1 20080903 EP 2006-850997 20061219  
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 IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

CN 101218264 A 20080709 CN 2006-80025345 20080111  
 IN 2008CN00218 A 20080919 IN 2008-CN218 20080114  
 IN 2008CN00232 A 20080919 IN 2008-CN232 20080114

PRIORITY APPLN. INFO.: GB 2005-14387 A 20050715  
 GB 2005-14398 A 20050715  
 GB 2005-23853 A 20051124  
 GB 2005-25978 A 20051221  
 US 2005-275331 A 20051223  
 WO 2006-US27144 W 20060714  
 WO 2006-US27146 W 20060714  
 WO 2006-US45100 W 20061121  
 WO 2006-US62300 W 20061219  
 WO 2006-US62312 W 20061219

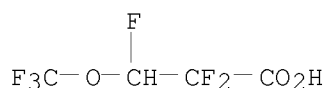
OTHER SOURCE(S): MARPAT 146:143569

AB Dispersions contain fluoropolymers and fluorinated carboxylic acids or salts. Thus, a dispersion contained hexafluoropropylene-perfluoro[(propyloxyisopropyl) vinyl ether]-tetrafluoroethylene copolymer and ammonium 2,4,6-trioxaperfluorooctanoate.

IT 919005-11-1 919005-12-2 919005-13-3  
 919005-14-4 919005-15-5 919005-16-6  
 919005-17-7  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (fluoropolymer dispersions containing fluorinated surfactants)

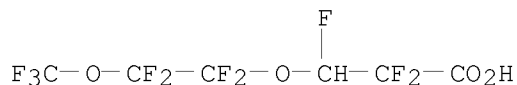
RN 919005-11-1 CAPLUS

CN Propanoic acid, 2,2,3-trifluoro-3-(trifluoromethoxy)- (CA INDEX NAME)



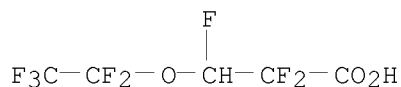
RN 919005-12-2 CAPLUS

CN Propanoic acid, 2,2,3-trifluoro-3-[1,1,2,2-tetrafluoro-2-(trifluoromethoxy)ethoxy]- (CA INDEX NAME)



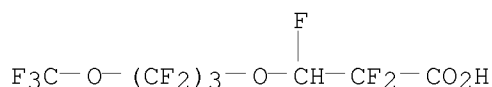
RN 919005-13-3 CAPLUS

CN Propanoic acid, 2,2,3-trifluoro-3-(1,1,2,2,2-pentafluoroethoxy)- (CA INDEX NAME)



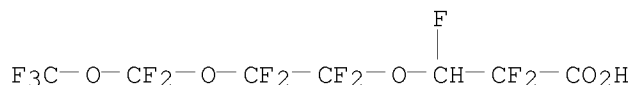
RN 919005-14-4 CAPLUS

CN Propanoic acid, 2,2,3-trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]- (CA INDEX NAME)



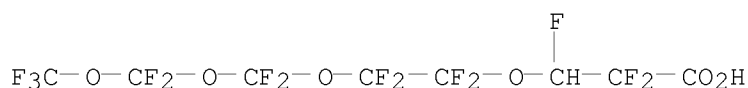
RN 919005-15-5 CAPLUS

CN Propanoic acid, 3-[2-[difluoro(trifluoromethoxy)methoxy]-1,1,2,2-tetrafluoroethoxy]-2,2,3-trifluoro- (CA INDEX NAME)



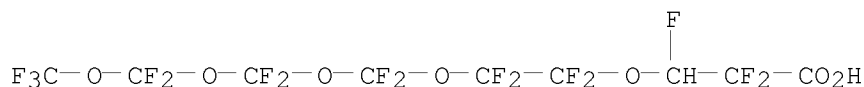
RN 919005-16-6 CAPLUS

CN 4,7,9,11-Tetraoxadodecanoic acid, 2,2,3,5,5,6,6,8,8,10,10,12,12,12-tetradecafluoro- (CA INDEX NAME)



RN 919005-17-7 CAPLUS

CN 4,7,9,11,13-Pentaoxatetradecanoic acid, 2,2,3,5,5,6,6,8,8,10,10,12,12,14,14,14-hexadecafluoro- (CA INDEX NAME)



L9 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:29297 CAPLUS

DOCUMENT NUMBER: 142:137106

TITLE: Fluoroalkyl group-containing carboxylic acid derivatives and their use as surfactants or dispersants for production of fluorine-containing polymers and aqueous dispersion of fluorine-containing polymers

INVENTOR(S): Morita, Shigeru; Tanaka, Yoshiki; Washino, Keiko; Tsuda, Nobuhiko; Kishine, Mitsuru

PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005003075	A1	20050113	WO 2004-JP9445	20040702
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				

GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK,  
 LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO,  
 NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,  
 TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
 SN, TD, TG

JP 2005036002	A	20050210	JP 2004-197178	20040702
JP 3758666	B2	20060322		
US 20060281946	A1	20061214	US 2005-562730	20051230
PRIORITY APPLN. INFO.:			JP 2003-190250	A 20030702
			WO 2004-JP9445	W 20040702

OTHER SOURCE(S): MARPAT 142:137106

AB The fluoroalkyl group-containing carboxylic acid derivs. are of  
 Rf1(OCH2CF2CF2)n1OCX1X2CF2(Rf2)n2COOM type compds. (wherein Rf1 = linear  
 or branched C1-20 fluoroalkyl group which may contain 1-5 O atoms in main  
 chain; Rf2 = linear or branched C1-25 fluoroalkylene group which may  
 contain 1-5 oxygen atoms in the main chain; n1 = 0-3; n2 = 0, 1; X1, X2 =  
 H, F; M = NH4, monovalent metal). Thus, compressing 200 g CF3CF2COF  
 followed with .apprx.70 g/h 2,2,3,3-tetrafluorooxetane (I) into a  
 pressure-resistant reactor containing 100 g CsF until reaching 1750 g I,  
 further reacting for 10 h until a constant pressure is reached with no trace  
 of remaining I, depressing, exchanging with N, heating to 50° and  
 drawing the pressure to .apprx.4.0x103 Pa gave 2470 g crude  
 CF3CF2CF2OCH2CF2COF which was purified, hydrolyzed with dilute H2SO4 and  
 neutralized by NaOH to give CF3CF2CF2OCH2CF2COONa (II). The compound II  
 showed surface tension 68.5 mN/m and 48.0 mN/m at 0.2% and 2.0% concentration

in aqueous solution, resp. Polymerizing vinylidene fluoride and  
 hexafluoropropylene at a molar ratio 65:35 in water containing the II gave a copolymer dispersion  
 containing particles with average primary particle diameter 102.8 nm.

IT 824393-40-0P 824393-41-1P 824393-44-4P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP  
 (Preparation); USES (Uses)

(manufacture of fluoroalkyl group-containing carboxylic acid derivs. useful  
 as surfactants or dispersants for production of fluoropolymers and their  
 aqueous dispersion)

RN 824393-40-0 CAPLUS

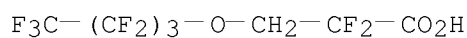
CN Propanoic acid, 2,2-difluoro-3-(1,1,2,2,3,3,4,4,4-nonafluorobutoxy)-,  
 sodium salt (1:1) (CA INDEX NAME)

F3C—(CF2)3—O—CH2—CF2—CO2H

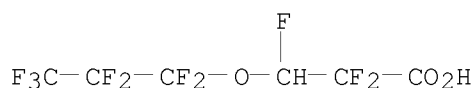
● Na

RN 824393-41-1 CAPLUS

CN Propanoic acid, 2,2-difluoro-3-(1,1,2,2,3,3,4,4,4-nonafluorobutoxy)-,  
 ammonium salt (1:1) (CA INDEX NAME)

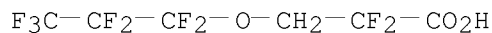


RN 824393-44-4 CAPLUS  
 CN Propanoic acid, 2,2,3-trifluoro-3-(1,1,2,2,3,3,3-heptafluoropropoxy)-, ammonium salt (1:1) (CA INDEX NAME)

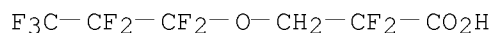


IT 824393-34-2P 824393-36-4P 824393-37-5P  
 824393-39-7P 824393-42-2P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (manufacture of fluoroalkyl group-containing carboxylic acid derivs. useful as surfactants or dispersants for production of fluoropolymers and their aqueous dispersion)

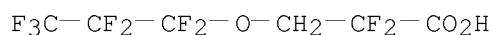
RN 824393-34-2 CAPLUS  
 CN Propanoic acid, 2,2-difluoro-3-(1,1,2,2,3,3,3-heptafluoropropoxy)- (CA INDEX NAME)



RN 824393-36-4 CAPLUS  
 CN Propanoic acid, 2,2-difluoro-3-(1,1,2,2,3,3,3-heptafluoropropoxy)-, sodium salt (1:1) (CA INDEX NAME)

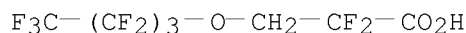


RN 824393-37-5 CAPLUS  
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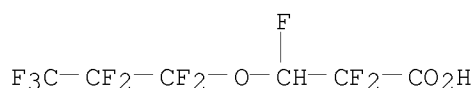
RN 824393-39-7 CAPLUS

CN Propanoic acid, 2,2-difluoro-3-(1,1,2,2,3,3,4,4,4-nonafluorobutoxy)- (CA INDEX NAME)



RN 824393-42-2 CAPLUS

CN Propanoic acid, 2,2,3-trifluoro-3-(1,1,2,2,3,3,3-heptafluoropropoxy)- (CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:3010 CAPLUS

DOCUMENT NUMBER: 130:168539

TITLE: Synthesis and biological evaluation of (23R)- and (23S)-24,24-difluoro-1 $\alpha$ ,23,25-trihydroxyvitamin D3

AUTHOR(S): Iwasaki, Hiroshi; Miyamoto, Yoichi; Hosotani, Ryuzo; Nakano, Yoshio; Konno, Katsuhiko; Takayama, Hiroaki

CORPORATE SOURCE: Tsukuba Research Laboratory, NOF Corporation, Tsukuba, 300-2635, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1998), 46(12), 1932-1935

CODEN: CPBTAL; ISSN: 0009-2363

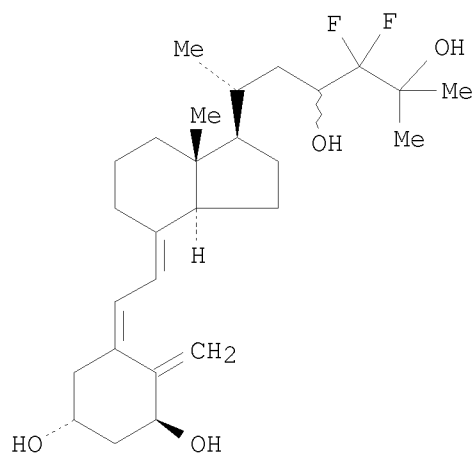
PUBLISHER: Pharmaceutical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 130:168539

GI



AB The syntheses and biol. evaluations of (23R)- and (23S)-24,24-difluoro-1 $\alpha$ ,23,25-trihydroxyvitamin D3 I, new C-24 fluorinated analogs of 1 $\alpha$ ,25-dihydroxyvitamin D3, are described. The syntheses of these compds. were achieved in steps from

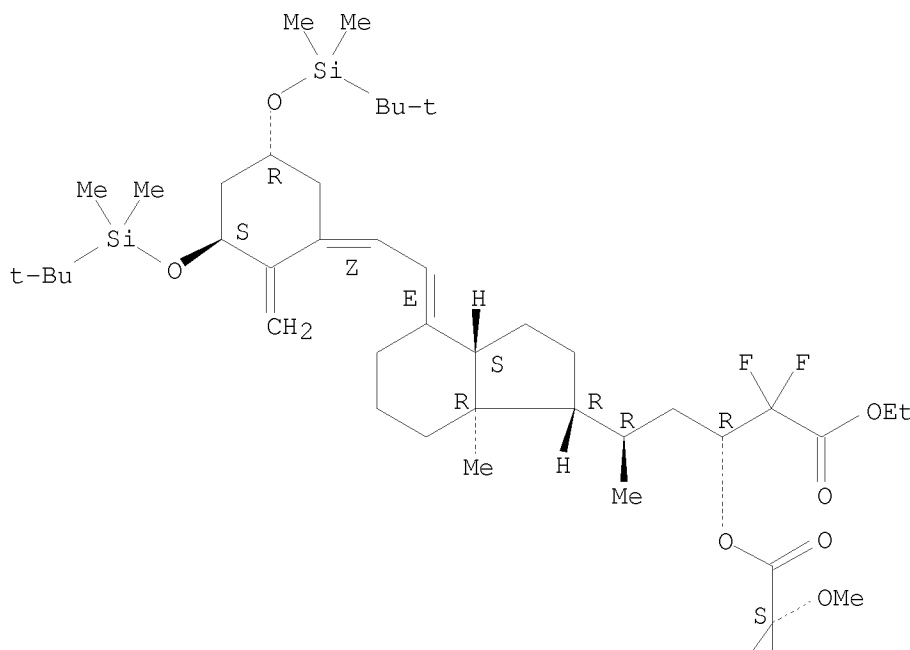
(5Z, 7E, 20R)-1 $\alpha$ , 3 $\beta$ -bis-[(tert-butyldimethylsilyl)oxy]-20-formylmethyl-9,10-seco-5,7.10(19)pregnatriene which is derived from vitamin D<sub>2</sub>. The absolute configuration at the C-23 position of I was determined by the modified Mosher method. The relative affinities of R- and S-I to the vitamin D receptor were both 10 and 14 times lower than that of 1 $\alpha$ ,25-dihydroxyvitamin D<sub>3</sub>, and to vitamin D binding protein were also both 130 and 40 times lower. The HL-60 cell differentiating activity of R-I was 6 times more potent than that of 1 $\alpha$ ,25-dihydroxyvitamin D<sub>3</sub>, while there was no remarkable difference in activity between S-I and 1 $\alpha$ ,25-dihydroxyvitamin D<sub>3</sub>.

IT 220370-07-0P 220370-08-1P 220370-09-2P  
220370-10-5P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(synthesis and biol. evaluation of (23R)- and (23S)-24,24-difluoro-1 $\alpha$ ,23,25-trihydroxyvitamin D<sub>3</sub>)

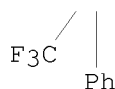
RN 220370-07-0 CAPLUS  
CN 1H-Indene-1-pentanoic acid, 4-[(2Z)-2-[(3S,5R)-3,5-bis[[[1,1-dimethylethyl)dimethylsilyl]oxy]-2-methylenecyclohexylidene]ethylidene]- $\alpha$ , $\alpha$ -difluorooctahydro- $\delta$ ,7 $\alpha$ -dimethyl- $\beta$ -[(2S)-3,3,3-trifluoro-2-methoxy-1-oxo-2-phenylpropoxy]-, ethyl ester, ( $\beta$ R, $\delta$ R,1R,3 $\alpha$ S,4E,7 $\alpha$ R)- (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.

PAGE 1-A



PAGE 2-A



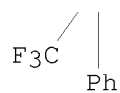
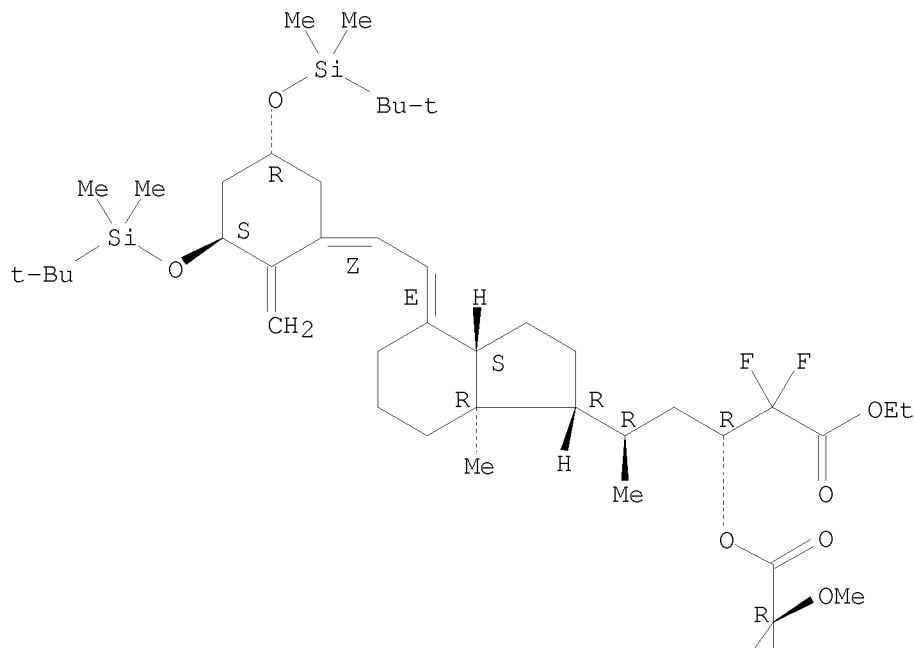
RN 220370-08-1 CAPLUS

Absolute stereochemistry.  
Double bond geometry as shown.

[illegible]
$$\begin{array}{c} \text{F}_3\text{C} \diagup \\ | \\ \text{Ph} \end{array}$$

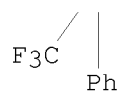
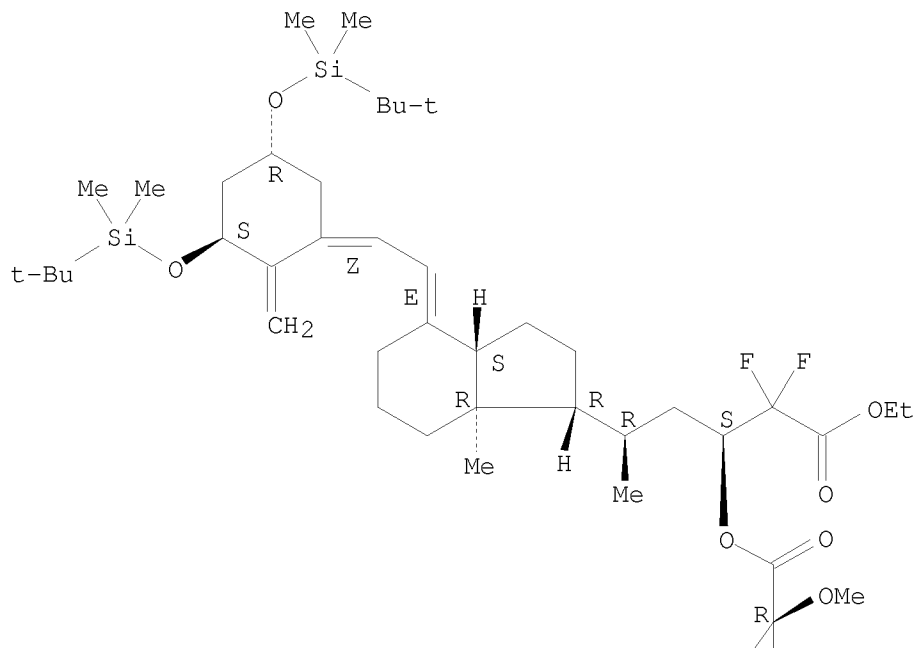
CN 1H-Indene-1-pentanoic acid, 4-[(2Z)-2-[(3S,5R)-3,5-bis[[ (1,1-dimethylethyl)dimethylsilyl]oxy]-2-methylenecyclohexylidene]ethylidene]- $\alpha,\alpha$ -difluorooctahydro- $\delta,7a$ -dimethyl- $\beta$ -[(2R)-3,3,3-trifluoro-2-methoxy-1-oxo-2-phenylpropoxy]-, ethyl ester, ( $\beta R, \delta R, 1R, 3aS, 4E, 7aR$ )- (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.



RN 220370-10-5 CAPLUS  
 CN 1H-Indene-1-pentanoic acid, 4-[(2Z)-2-[(3S,5R)-3,5-bis[[1,1-dimethylethyl]dimethylsilyl]oxy]-2-methylenecyclohexylidene]ethylidene]- $\alpha,\alpha$ -difluorooctahydro- $\delta$ ,7a-dimethyl- $\beta$ -[(2R)-3,3,3-trifluoro-2-methoxy-1-oxo-2-phenylpropoxy]-, ethyl ester, ( $\beta$ S, $\delta$ R,1R,3aS,4E,7aR)- (CA INDEX NAME)

Absolute stereochemistry.  
 Double bond geometry as shown.



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:227021 CAPLUS

DOCUMENT NUMBER: 128:323921

ORIGINAL REFERENCE NO.: 128:64171a,64174a

TITLE: Lubricants and magnetic recording media using them

INVENTOR(S): Furuya, Takahiro; Sasamoto, Sayaka

PATENT ASSIGNEE(S): Hitachi Maxell, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10095991	A	19980414	JP 1996-254260	19960926
PRIORITY APPLN. INFO.:			JP 1996-254260	19960926

AB Lubricants for magnetic recording media are compds. having F-containing polyether blocks of  $(\text{CH}_2\text{CF}_2\text{CF}_2\text{O})_l$  and  $(\text{CHF}_2\text{CF}_2\text{CF}_2\text{O})_m$ , where  $l$  or  $m \geq 1$  and  $2 \leq l+m \leq 200$ , and at least one terminal end having ammonium salt group. The lubricants provide improved lubricity and durability of magnetic recording media.

IT 206852-52-0P 206852-53-1P 206852-54-2P  
206852-55-3P 206852-56-4P 206852-57-5P

206852-60-0P 206852-62-2P 206852-65-5P

206852-69-9P 206852-70-2P 206852-72-4P

RL: IMF (Industrial manufacture); NUU (Other use, unclassified); TEM  
(Technical or engineered material use); PREP (Preparation); USES (Uses)  
(lubricant; lubricants and magnetic recording media using them)

RN 206852-52-0 CAPLUS

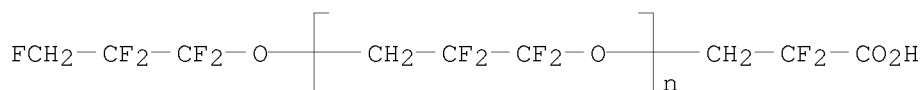
CN 1-Octadecanamine, compd. with  $\alpha$ -(2-carboxy-2,2-difluoroethyl)-  
 $\omega$ -(1,1,2,2,3-pentafluoropropoxy)poly[oxy(1,1,2,2-tetrafluoro-1,3-  
propanediyl)] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 104677-65-8

CMF (C3 H2 F4 O)<sub>n</sub> C6 H5 F7 O3

CCI PMS



CM 2

CRN 124-30-1

CMF C18 H39 N

H<sub>2</sub>N-(CH<sub>2</sub>)<sub>17</sub>-Me

RN 206852-53-1 CAPLUS

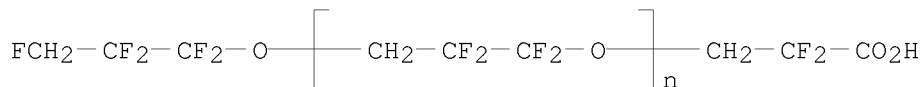
CN 9-Octadecen-1-amine, (9Z)-, compd. with  
 $\alpha$ -(2-carboxy-2,2-difluoroethyl)- $\omega$ -(1,1,2,2,3-  
pentafluoropropoxy)poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)] (1:1)  
(9CI) (CA INDEX NAME)

CM 1

CRN 104677-65-8

CMF (C3 H2 F4 O)<sub>n</sub> C6 H5 F7 O3

CCI PMS

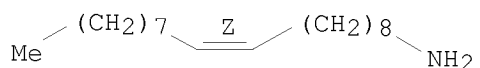


CM 2

CRN 112-90-3

CMF C18 H37 N

Double bond geometry as shown.



RN 206852-54-2 CAPLUS

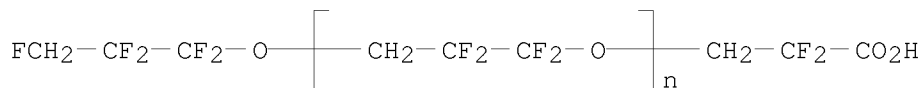
CN 1-Octanamine, compd. with  $\alpha$ -(2-carboxy-2,2-difluoroethyl)- $\omega$ -(1,1,2,2,3-pentafluoropropoxy)poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 104677-65-8

CMF (C3 H2 F4 O)<sub>n</sub> C6 H5 F7 O3

CCI PMS



CM 2

CRN 111-86-4

CMF C8 H19 N

H<sub>2</sub>N-(CH<sub>2</sub>)<sub>7</sub>-Me

RN 206852-55-3 CAPLUS

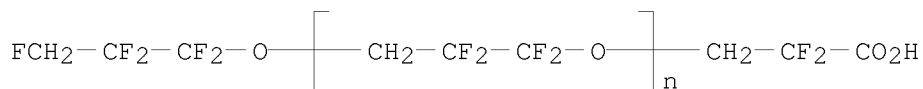
CN Poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)],  $\alpha$ -(2-carboxy-2,2-difluoroethyl)- $\omega$ -(1,1,2,2,3-pentafluoropropoxy)-, compd. with N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 104677-65-8

CMF (C3 H2 F4 O)<sub>n</sub> C6 H5 F7 O3

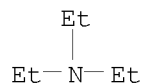
CCI PMS



CM 2

CRN 121-44-8

CMF C6 H15 N

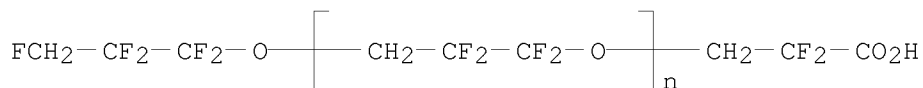


RN 206852-56-4 CAPLUS

CN 1-Octanamine, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with  $\alpha$ -(2-carboxy-2,2-difluoroethyl)- $\omega$ -(1,1,2,2,3-pentafluoropropoxy)poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)] (1:1) (9CI) (CA INDEX NAME)

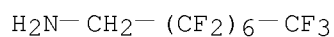
CM 1

CRN 104677-65-8  
 CMF (C3 H2 F4 O)<sub>n</sub> C6 H5 F7 O3  
 CCI PMS



CM 2

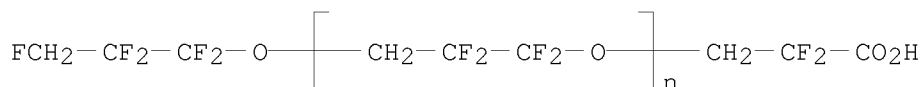
CRN 307-29-9  
 CMF C8 H4 F15 N



RN 206852-57-5 CAPLUS  
 CN Benzenamine, 4-phenoxy-, compd. with  
 $\alpha$ -(2-carboxy-2,2-difluoroethyl)- $\omega$ -(1,1,2,2,3-pentafluoropropoxy)poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)] (1:1)  
 (9CI) (CA INDEX NAME)

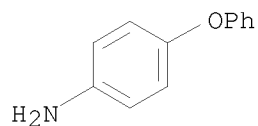
CM 1

CRN 104677-65-8  
 CMF (C3 H2 F4 O)<sub>n</sub> C6 H5 F7 O3  
 CCI PMS



CM 2

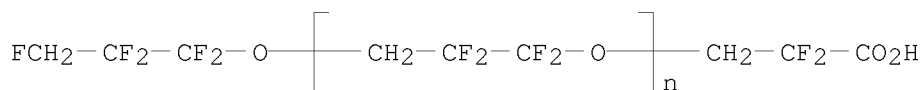
CRN 139-59-3  
 CMF C12 H11 N O



RN 206852-60-0 CAPLUS  
 CN 1,3-Benzodioxole-5-methanamine, compd. with  
 $\alpha$ -(2-carboxy-2,2-difluoroethyl)- $\omega$ -(1,1,2,2,3-pentafluoropropoxy)poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)] (1:1)  
 (9CI) (CA INDEX NAME)

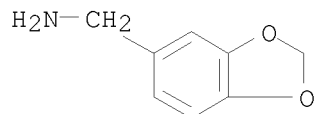
CM 1

CRN 104677-65-8  
 CMF (C3 H2 F4 O)<sub>n</sub> C6 H5 F7 O3  
 CCI PMS



CM 2

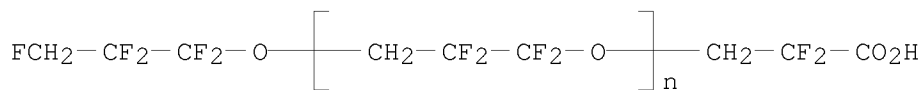
CRN 2620-50-0  
CMF C8 H9 N O2



RN 206852-62-2 CAPLUS  
CN Benzenamine, 4-methoxy-, compd. with  
 $\alpha$ -(2-carboxy-2,2-difluoroethyl)- $\omega$ -(1,1,2,2,3-pentafluoropropoxy)poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)] (1:1)  
(9CI) (CA INDEX NAME)

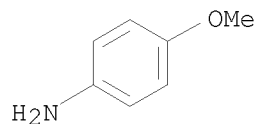
CM 1

CRN 104677-65-8  
CMF (C3 H2 F4 O)<sub>n</sub> C6 H5 F7 O3  
CCI PMS



CM 2

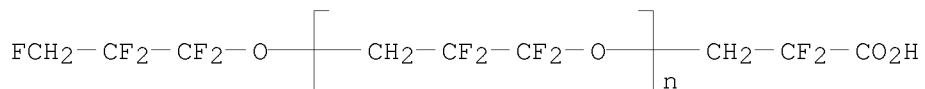
CRN 104-94-9  
CMF C7 H9 N O



RN 206852-65-5 CAPLUS  
CN Benzenamine, 4-(trifluoromethyl)-, compd. with  
 $\alpha$ -(2-carboxy-2,2-difluoroethyl)- $\omega$ -(1,1,2,2,3-pentafluoropropoxy)poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)] (1:1)  
(9CI) (CA INDEX NAME)

CM 1

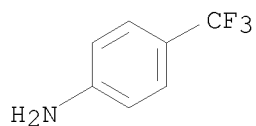
CRN 104677-65-8  
CMF (C3 H2 F4 O)<sub>n</sub> C6 H5 F7 O3  
CCI PMS



CM 2

CRN 455-14-1

CMF C7 H6 F3 N



RN 206852-69-9 CAPLUS

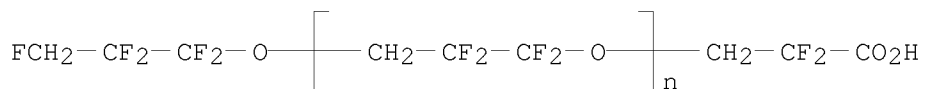
CN [1,1'-Biphenyl]-4-amine, compd. with  
 $\alpha$ -(2-carboxy-2,2-difluoroethyl)- $\omega$ -(1,1,2,2,3-pentafluoropropoxy)poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)] (1:1)  
 (9CI) (CA INDEX NAME)

CM 1

CRN 104677-65-8

CMF (C3 H2 F4 O)<sub>n</sub> C6 H5 F7 O3

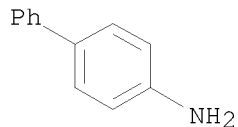
CCI PMS



CM 2

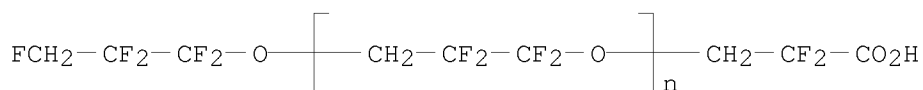
CRN 92-67-1

CMF C12 H11 N



RN 206852-70-2 CAPLUS

CN Poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)],  
 $\alpha$ -(2-carboxy-2,2-difluoroethyl)- $\omega$ -(1,1,2,2,3-pentafluoropropoxy)-, ammonium salt (9CI) (CA INDEX NAME)



RN 206852-72-4 CAPLUS

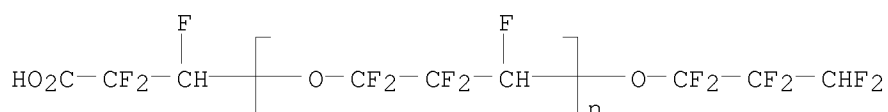
CN 1-Octadecanamine, compd. with  $\alpha$ -(2-carboxy-1,2,2-trifluoroethyl)-  
 $\omega$ -(1,1,2,2,3,3-hexafluoropropoxy)poly[oxy(1,1,2,2,3-pentafluoro-1,3-  
 propanediyl)] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 206852-71-3

CMF (C3 H F5 O)<sub>n</sub> C6 H3 F9 O3

CCI PMS



CM 2

CRN 124-30-1

CMF C18 H39 N

H<sub>2</sub>N-(CH<sub>2</sub>)<sub>17</sub>-Me

L9 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:65786 CAPLUS

DOCUMENT NUMBER: 128:106249

ORIGINAL REFERENCE NO.: 128:20735a,20738a

TITLE: Cosmetic preparations containing fluorinated oils

INVENTOR(S): Morita, Masamichi; Seki, Eiji; Kubo, Motonobu

PATENT ASSIGNEE(S): Daikin Industries Ltd., Japan

SOURCE: PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9801104	A1	19980115	WO 1997-JP2343	19970707
W: JP, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 938885	A1	19990901	EP 1997-929542	19970707
R: FR, GB, IT				
JP 3622204	B2	20050223	JP 1998-505056	19970707
US 6136331	A	20001024	US 1998-214153	19981229
PRIORITY APPLN. INFO.:			JP 1996-177837	A 19960708
			WO 1997-JP2343	W 19970707

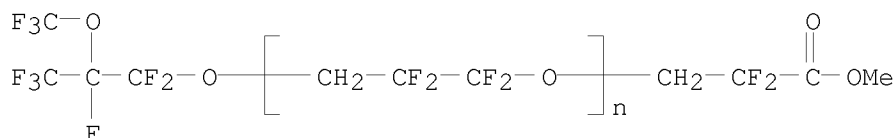
OTHER SOURCE(S): MARPAT 128:106249

AB Cosmetic preps. containing fluorinated oils e.g.  
 $\text{XO}[\text{C}(\text{CF}_3)\text{FCF}_2\text{O}]_h[\text{CH}_2\text{CF}_2\text{CF}_2\text{O}]_o\text{YCOOR}_3$  [ X = H, F, Cl, Br or fluorinated  
 C1-30 aliphatic group; Y = fluorinated C1-30 aliphatic group; h + o = 1-100] do  
 not impair the oil repellency of powdery materials treated with fluorine  
 compds. and are excellent in compatibility with the skin and inexpensive.  
 The fluorinated oils were used in manufacturing e.g. liquid foundations.

IT 201354-61-2P  
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
 (cosmetic preps. containing fluorinated oils)

RN 201354-61-2 CAPLUS

CN Poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)],  
 $\alpha$ -(2,2-difluoro-3-methoxy-3-oxopropyl)- $\omega$ -[1,1,2,3,3,3-  
 hexafluoro-2-(trifluoromethoxy)propoxy]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:1003905 CAPLUS

DOCUMENT NUMBER: 124:86700

ORIGINAL REFERENCE NO.: 124:16295a,16298a

TITLE: Synthesis of chiral difluorinated[6]-gingerol

AUTHOR(S): Fukuda, Hiroshi; Tetsu, Makio; Kitazume, Tomoya

CORPORATE SOURCE: Dep. Bioeng., Tokyo Inst. Technol., Yokohama, 226,  
 Japan

SOURCE: Tetrahedron (1996), 52(1), 157-64  
 CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 124:86700

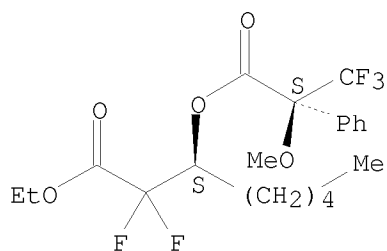
AB Total synthesis of chiral difluorinated[6]-gingerol, (R)- or  
 (S)-4-HO-3-MeOC<sub>6</sub>H<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>COCF<sub>2</sub>CH(OH)(CH<sub>2</sub>)<sub>4</sub>Me, using key intermediates  
 (R)-(+)- and (S)-(-)-Et 2,2-difluoro-3-hydroxyoctanoates, obtained via  
 enzymic resolution with olipase/4S (Rhizopus japonicus) is described.

IT 172546-97-3P 172721-85-6P  
 RL: BPN (Biosynthetic preparation); SPN (Synthetic preparation); BIOL  
 (Biological study); PREP (Preparation)  
 (total synthesis of chiral difluorinated gingerol via enzymic resolution  
 of difluorohydroxyoctanoate)

RN 172546-97-3 CAPLUS

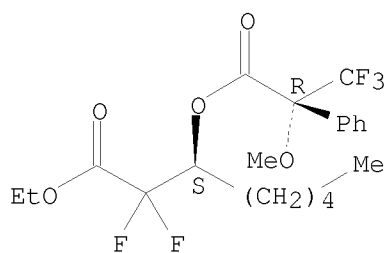
CN Benzeneacetic acid,  $\alpha$ -methoxy- $\alpha$ -(trifluoromethyl)-,  
 1-(2-ethoxy-1,1-difluoro-2-oxoethyl)hexyl ester, [S-(R\*,R\*)]- (9CI) (CA  
 INDEX NAME)

Absolute stereochemistry.



RN 172721-85-6 CAPLUS  
 CN Benzeneacetic acid,  $\alpha$ -methoxy- $\alpha$ -(trifluoromethyl)-,  
 1-(2-ethoxy-1,1-difluoro-2-oxoethyl)hexyl ester, [S-(R\*,S\*)]- (9CI) (CA  
 INDEX NAME)

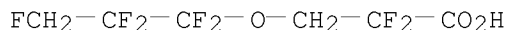
Absolute stereochemistry.



L9 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1991:64555 CAPLUS  
 DOCUMENT NUMBER: 114:64555  
 ORIGINAL REFERENCE NO.: 114:11053a,11056a  
 TITLE: Preparation of fluorine-containing cellulose  
 derivatives and their properties  
 AUTHOR(S): Muramoto, Mieko; Yoshioka, Mariko; Shiraishi, Nobuo  
 CORPORATE SOURCE: Fac. Agric., Kyoto Univ., Kyoto, 606, Japan  
 SOURCE: Sen'i Gakkaishi (1990), 46(11), 496-505  
 CODEN: SENGAS; ISSN: 0037-9875  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Cellulose dissolved in a mixture of LiCl and AcNMe<sub>2</sub> was esterified with  
 4-perfluoro(3-isopropyl-4-methyl-2-penten-2-yloxy)phthalic anhydride (I)  
 using Et<sub>3</sub>N or pyridine as a catalyst. The products obtained with either  
 catalyst had the same degree of substitution (DS) of 2.1. Fluorine-containing  
 cellulose derivs. with DS of 0.16 and 0.36 were also prepared by  
 esterifications of Et cellulose (II) (DS = 2.5) with I and with  
 1,1,2,2,3-pentafluoropropoxy-2,2-difluoropropionyl fluoride (III), resp.  
 Formation of these esters was confirmed by IR and <sup>1</sup>H- and <sup>19</sup>F-NMR spectra.  
 Dynamic viscoelastic and thermoplastic characteristics of cellulose and II  
 were changed considerably by their derivatization. Refractive indexes of  
 the fluorine-containing cellulose derivs. were relatively low, 1.443-1.458.  
 All the products were less hygroscopic than the starting materials. II,  
 I-esterified II, and III-esterified II had low dielec. consts. and low  
 dielec. loss tangents, so they could be regarded as good insulators.  
 IT 131552-78-8P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and properties of, degree of substitution effects in)  
 RN 131552-78-8 CAPLUS  
 CN Cellulose, 2,2-difluoro-3-(1,1,2,2,3-pentafluoropropoxy)propanoate, ethyl  
 ether (9CI) (CA INDEX NAME)

CM 1

CRN 168677-68-7  
CMF C6 H5 F7 O3



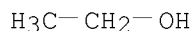
CM 2

CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 3

CRN 64-17-5  
CMF C2 H6 O



L9 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

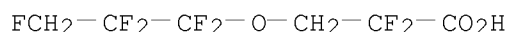
ACCESSION NUMBER: 1991:45285 CAPLUS  
DOCUMENT NUMBER: 114:45285  
ORIGINAL REFERENCE NO.: 114:7861a,7864a  
TITLE: Preparation of fluorine-containing cellulose derivatives  
INVENTOR(S): Shiraishi, Nobuo; Kubo, Motonobu  
PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan  
SOURCE: Eur. Pat. Appl., 11 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 382208	A2	19900816	EP 1990-102483	19900208
EP 382208	A3	19910522		
R: DE, FR, GB				
JP 02212501	A	19900823	JP 1989-31845	19890210
JP 02227401	A	19900910	JP 1989-47098	19890228
US 5187269	A	19930216	US 1990-476697	19900208
PRIORITY APPLN. INFO.:			JP 1989-31845	A 19890210
			JP 1989-47098	A 19890228

AB The title derivs. with high F content, having good water resistance, etc., are prepared by the reaction of cellulose with compds. such as 4-[2,2-bis(perfluoroisopropyl)-1-trifluoromethyl)ethenyloxy]phthalic anhydride (I), 4-[2,2-bis(perfluoroisopropyl)-1-(trifluoromethyl)ethenyloxy]benzoyl chloride, FCH<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>OCH<sub>2</sub>CF<sub>2</sub>COF, or FCOCF<sub>2</sub>CH<sub>2</sub>(OCF<sub>2</sub>CF<sub>2</sub>CH<sub>2</sub>)qF in the presence of an esterification catalyst. A solution of cellulose in AcNMe<sub>2</sub> containing LiCl and Et<sub>3</sub>N was treated with I (6 mol/mol cellulose units) to give a cellulose ester having degree of substitution 2.1 and F content 47.8%.

IT 131552-77-7P 131571-36-3P

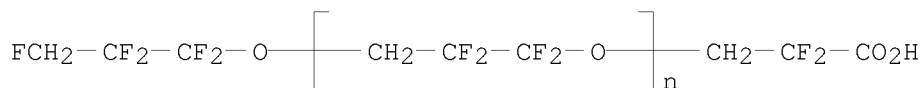
RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of, with high fluorine content and water repellency)  
 RN 131552-77-7 CAPLUS  
 CN Cellulose, 2,2-difluoro-3-(1,1,2,2,3-pentafluoropropoxy)propanoate (9CI)  
 (CA INDEX NAME)  
 CM 1  
 CRN 168677-68-7  
 CMF C6 H5 F7 O3



CM 2  
 CRN 9004-34-6  
 CMF Unspecified  
 CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 131571-36-3 CAPLUS  
 CN Cellulose, ester with  $\alpha$ -(2-carboxy-2,2-difluoroethyl)- $\omega$ -  
 fluoropoly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)] (9CI) (CA INDEX  
 NAME)  
 CM 1  
 CRN 104677-65-8  
 CMF (C3 H2 F4 O)<sub>n</sub> C6 H5 F7 O3  
 CCI PMS



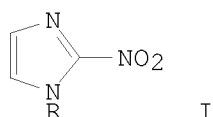
CM 2  
 CRN 9004-34-6  
 CMF Unspecified  
 CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L9 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1991:6504 CAPLUS  
 DOCUMENT NUMBER: 114:6504  
 ORIGINAL REFERENCE NO.: 114:1283a,1286a  
 TITLE: Preparation of  
 3-(2-nitroimidazolo)-2,2-difluoropropionamides and  
 analogs as radiosensitizers  
 INVENTOR(S): Kagiya, Tsutomu; Abe, Mitsuyuki; Nishimoto, Seiichi;  
 Shibamoto, Yuta; Otomo, Susumu; Tanami, Tohru;  
 Shimokawa, Kazuhiro; Yoshizawa, Toru; Hisanaga,  
 Yorisato  
 PATENT ASSIGNEE(S): Nishijima, Yasunori, Japan; Taisho Pharmaceutical Co.,  
 Ltd.; Daikin Industries, Ltd.  
 SOURCE: Eur. Pat. Appl., 18 pp.

CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

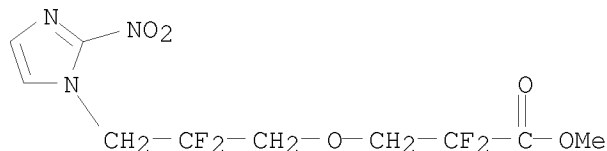
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 373630	A1	19900620	EP 1989-123062	19891213
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 2005261	A1	19900614	CA 1989-2005261	19891212
US 4977273	A	19901211	US 1989-448909	19891212
AU 8946713	A	19900621	AU 1989-46713	19891213
AU 625581	B2	19920716		
ZA 8909503	A	19900926	ZA 1989-9503	19891213
JP 02275863	A	19901109	JP 1989-325437	19891214
PRIORITY APPLN. INFO.:			JP 1988-315974	A 19881214
OTHER SOURCE(S):	CASREACT 114:6504; MARPAT 114:6504			
GI				



AB The title compds. [I; R = CH<sub>2</sub>CFXCH<sub>2</sub>OR<sub>1</sub>; R<sub>1</sub> = CH<sub>2</sub>CH(OR<sub>2</sub>)CH<sub>2</sub>OR<sub>2</sub>, (CH<sub>2</sub>)<sub>l</sub>OR<sub>2</sub>, (CH<sub>2</sub>)<sub>l</sub>COR<sub>2</sub>, (CH<sub>2</sub>)<sub>m</sub>(CF<sub>2</sub>)<sub>n</sub>[CONH(CHR<sub>3</sub>)<sub>r</sub>(CF<sub>2</sub>)<sub>p</sub>]qZ, etc.; R<sub>2</sub> = H, OH (sic), alkyl, acyl; R<sub>22</sub> = PhCH, Me<sub>2</sub>C; R<sub>3</sub> = H, alkyl; X = H, halo; Z = H, CO<sub>2</sub>R<sub>3</sub>, CO<sub>2</sub>H, CONH<sub>2</sub>, etc.; l = 1-3; m, n = 0-4; p = 0-2; q, r = 0-3] were prepared as hypoxic cell sensitizers. Thus, I (R = CH<sub>2</sub>CF<sub>2</sub>CO<sub>2</sub>Me) was stirred 1 h with H<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Me.HCl in MeOH containing KOH and the product stirred 2 days with aqueous NH<sub>3</sub>-MeOH containing KOH to give I (R = CH<sub>2</sub>CF<sub>2</sub>CONHCH<sub>2</sub>CH<sub>2</sub>CONH<sub>2</sub>) which

gave cell-survival rate of EMT-6 tumor cells X-irradiated in mouse thigh 66% that of unirradiated cells after administration of 100 mg/kg i.p.

IT 130777-27-4P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, in preparation of radiosensitizers)  
RN 130777-27-4 CAPLUS  
CN Propanoic acid, 3-[2,2-difluoro-3-(2-nitro-1H-imidazol-1-yl)propoxy]-2,2-difluoro-, methyl ester (CA INDEX NAME)



L9 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1986:554140 CAPLUS  
DOCUMENT NUMBER: 105:154140  
ORIGINAL REFERENCE NO.: 105:24849a, 24852a  
TITLE: Fluorocarbon resin foams  
INVENTOR(S): Namba, Mutsusuke; Shirasaki, Osamu; Hirata, Tomohiko  
PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan

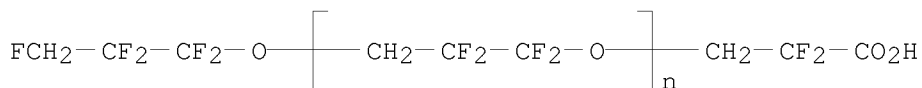
SOURCE: Eur. Pat. Appl., 39 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 183022	A2	19860604	EP 1985-112857	19851010
EP 183022	A3	19861217		
R: DE, FR, GB, IT, NL				
JP 61091229	A	19860509	JP 1984-213664	19841011
JP 63020859	B	19880430		
JP 61162534	A	19860723	JP 1985-1866	19850109
JP 03002451	B	19910116		
JP 61171743	A	19860802	JP 1985-11491	19850123
JP 03002452	B	19910116		
EP 350969	A2	19900117	EP 1989-115501	19851010
EP 350969	A3	19900530		

PRIORITY APPLN. INFO.:  
 JP 1984-213664 A 19841011  
 JP 1985-1866 A 19850109  
 JP 1985-11491 A 19850123  
 EP 1985-112857 P 19851010

AB Undiscolored foams with uniform, fine cells, useful in covering elec. cables, are prepared by molding molten fluoropolymers in the presence of a depolymerizable polymers of (fluoro)olefins, polyethers, or C2-20 polycarbonyloxy compds and, optionally, nucleating agents. Thus, a mixture of 1 part BN (particle size 1-8 $\mu$ ) and 100 parts 82:18 C2F4-C3F6 copolymer was pelletized, mixed with 1.0 part Me methacrylate polymer (particle size <500 $\mu$ ) and extruded to a foam with expansion ratio 60%, uniform cells, and no discoloration.

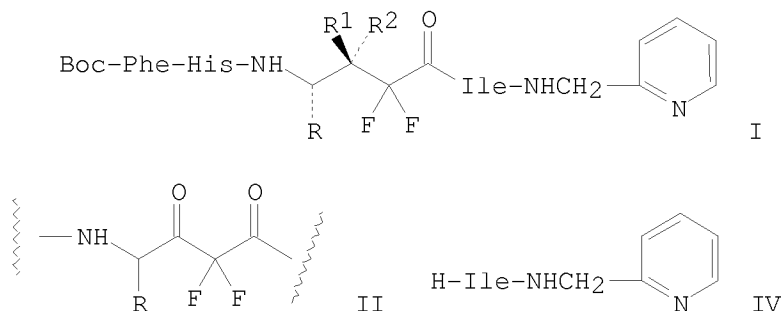
IT 104677-65-8  
 RL: USES (Uses)  
 (in fluoropolymer foam manufacture)  
 RN 104677-65-8 CAPLUS  
 CN Poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)],  
 $\alpha$ -(2-carboxy-2,2-difluoroethyl)- $\omega$ -(1,1,2,2,3-pentafluoropropoxy)- (9CI) (CA INDEX NAME)



L9 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:553525 CAPLUS  
 DOCUMENT NUMBER: 105:153525  
 ORIGINAL REFERENCE NO.: 105:24757a, 24760a  
 TITLE: Design and synthesis of potent and specific renin inhibitors containing difluorostatine, difluorostatone, and related analogs  
 AUTHOR(S): Thaisrivongs, Suvit; Pals, Donald T.; Kati, Warren M.; Turner, Steve R.; Thomasco, Lisa M.; Watt, William  
 CORPORATE SOURCE: Upjohn Co., Kalamazoo, MI, 49001, USA  
 SOURCE: Journal of Medicinal Chemistry (1986), 29(10), 2080-7  
 CODEN: JMCMAR; ISSN: 0022-2623  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 105:153525

GI



AB Title peptides I (Boc = Me<sub>3</sub>CO<sub>2</sub>C; R = CH<sub>2</sub>CHMe<sub>2</sub>, CH<sub>2</sub>Ph, cyclohexylmethyl, R<sub>1</sub> = OH, R<sub>2</sub> = H; R = CH<sub>2</sub>CHMe<sub>2</sub>, R<sub>1</sub> = H, R<sub>2</sub> = OH or R<sub>1</sub>R<sub>2</sub> = O) and II (R = CH<sub>2</sub>CHMe<sub>2</sub>, CH<sub>2</sub>Ph, cyclohexylmethyl) were prepared as renin inhibitors. Thus, the Reformatskii reaction of L-Me<sub>2</sub>CHCH<sub>2</sub>CH(NHBoc)CH<sub>2</sub>OH with BrCF<sub>2</sub>CO<sub>2</sub>Et in the presence of Zn under sonicating conditions gave Me<sub>2</sub>CHCH<sub>2</sub>CH(NHBoc)CH(OH)CF<sub>2</sub>CO<sub>2</sub>Et (III) as a mixture of the (3R, 4S)- and (3S, 4S)-diastereoisomers, whereas only (3R, 4S)-III was obtained from the above reaction when it was carried out under refluxing conditions. (3R, 4S)-III was coupled with isoleucinamide IV by DCC/HOBt to give the dipeptide, which was converted into I (R = CH<sub>2</sub>CHMe<sub>2</sub>, R<sub>1</sub> = OH, R<sub>3</sub> = H) (V) by stepwise peptide couplings in solution. V is an effective inhibitor of human plasma renin, whereas its 3S-epimer (I; R = CH<sub>2</sub>CHMe<sub>2</sub>, R<sub>1</sub> = H, R<sub>2</sub> = OH) exhibited a 60-fold reduction in inhibitory activity. I (R = CH<sub>2</sub>CHMe<sub>2</sub>, R<sub>1</sub>R<sub>2</sub> = O) is a more effective inhibitor of renin than the corresponding nonfluorinated compound

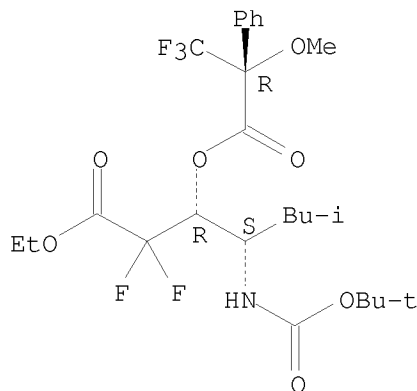
IT 103322-62-9P 103420-30-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 103322-62-9 CAPLUS

CN Benzeneacetic acid,  $\alpha$ -methoxy- $\alpha$ -(trifluoromethyl)-, 2-[[[(1,1-dimethylethoxy)carbonyl]amino]-1-(2-ethoxy-1,1-difluoro-2-oxoethyl)-4-methylpentyl ester, [1R-[1R\*(R\*),2S\*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

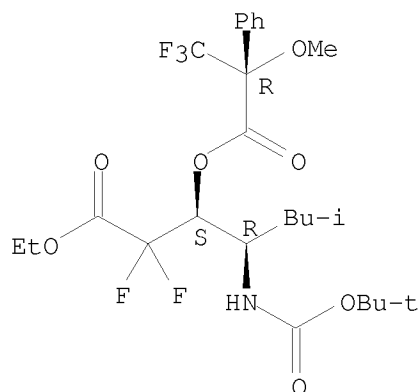


RN 103420-30-0 CAPLUS

CN Benzeneacetic acid,  $\alpha$ -methoxy- $\alpha$ -(trifluoromethyl)-, 2-[[[(1,1-dimethylethoxy)carbonyl]amino]-1-(2-ethoxy-1,1-difluoro-2-

oxoethyl)-4-methylpentyl ester, [1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:543602 CAPLUS

DOCUMENT NUMBER: 105:143602

ORIGINAL REFERENCE NO.: 105:23005a,23008a

TITLE: Etchant composition

INVENTOR(S): Fujii, Tsuneo; Deguchi, Takayuki; Tamaru, Shinji

PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan

SOURCE: Eur. Pat. Appl., 25 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 182306	A2	19860528	EP 1985-114526	19851115
EP 182306	A3	19880427		
EP 182306	B1	19910724		
R: DE, FR, GB				
JP 61270381	A	19861129	JP 1985-259205	19851118
JP 63045461	B	19880909		
US 4725375	A	19880216	US 1986-908943	19860916

PRIORITY APPLN. INFO.: JP 1984-242648 A 19841117  
US 1985-798407 A2 19851115

AB An etchant for etching a Cr or Cr oxide layer (e.g., in the preparation of masks for transferring patterns to semiconductor wafers) is composed of a Ce(IV) salt, a nonionic or anionic F-containing surfactant, H<sub>2</sub>O, and, optionally,  $\geq 1$  of HClO<sub>4</sub>, HOAc, H<sub>2</sub>SO<sub>4</sub>, HNO<sub>3</sub>, HCl, and their salts. The etchant can homogeneously etch a resist pattern having both wide and narrow gaps on a Cr or Cr oxide layer.

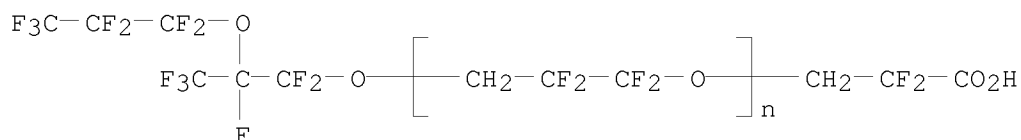
IT 104335-43-5

RL: USES (Uses)

(etchant containing, for etching chromium or chromium oxide for mask preparation)

RN 104335-43-5 CAPLUS

CN Poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)],  
 $\alpha$ -(2-carboxy-2,2-difluoroethyl)- $\omega$ -[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]-, potassium salt (9CI) (CA INDEX NAME)



● K

L9 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:69315 CAPLUS  
 DOCUMENT NUMBER: 104:69315  
 ORIGINAL REFERENCE NO.: 104:11113a,11116a  
 TITLE: Halogen-containing polyether  
 INVENTOR(S): Ohsaka, Yohnosuke; Tohzuka, Takashi; Takaki, Shoji  
 PATENT ASSIGNEE(S): Daikin Kogyo Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 44 pp.  
 CODEN: EPXXDW

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 148482	A2	19850717	EP 1984-116003	19841220
EP 148482	A3	19851227		
EP 148482	B1	19920325		
R: DE, FR, GB, IT, NL				
JP 60137928	A	19850722	JP 1983-251069	19831226
JP 63032812	B	19880701		
JP 60202122	A	19851012	JP 1984-58877	19840326
JP 63043419	B	19880830		
JP 61113616	A	19860531	JP 1984-235610	19841107
JP 01060170	B	19891221		
EP 415462	A1	19910306	EP 1990-119306	19841220
EP 415462	B1	19960508		
R: DE, FR, GB, IT, NL				
CA 1259443	A1	19890912	CA 1984-470995	19841224
SU 1806149	A3	19930330	SU 1984-3839427	19841225
US 4845268	A	19890704	US 1986-940191	19861209
US 4973742	A	19901127	US 1989-338036	19890414
RU 2073692	C1	19970220	RU 1991-4895780	19910626
RU 2107074	C1	19980320	RU 1992-5010940	19920226
PRIORITY APPLN. INFO.:			JP 1983-251069	A 19831226
			JP 1984-58877	A 19840326
			JP 1984-235610	A 19841107
			US 1984-684345	A1 19841220
			US 1986-940191	A3 19861209

AB Chemical and thermally stable halogen-containing polyethers useful as lubricants are prepared by ring-opening polymerization of 2,2,3,3-tetrafluorooxetane (I) and optional fluorination and/or chlorination. Thus,  $\text{F}(\text{CH}_2\text{CF}_2\text{CF}_2\text{O})_n\text{CH}_2\text{CF}_2\text{COF}$  (II) was prepared by ring-opening polymerization of I in the presence of CsF.

A reactor containing 1.5 kg II was heated to 100°-120°. The II was irradiated with a Hg lamp as a mixture of F(g) and N(g) was fed to the reactor at 1 L/min for 100 h, and then N was fed at 2 L/min for 50 h. A viscous fluoropolymer (1.8 kg) having  $\text{CF}_2\text{CF}_2\text{CF}_2\text{O}$  repeating units, with

kinematic viscosity at 40° (v) 65 cS, was formed. A rotary vacuum pump using the viscous fluoropolymer as lubricant was used in an apparatus to form O, H, and CCl<sub>4</sub> plasmas. After 30 days operation the pump motor showed no current irregularity, and the lubricant still had v 65 cS.

IT 99488-69-4P 99488-70-7P 99488-71-8P

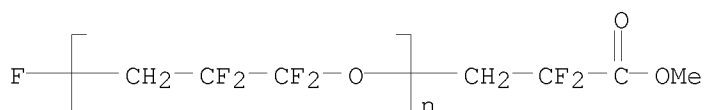
99488-72-9P

RL: PREP (Preparation)

(oligomeric, preparation of, chemical and thermally stable)

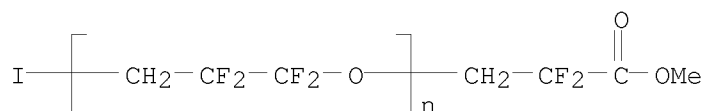
RN 99488-69-4 CAPLUS

CN Poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)],  
 $\alpha$ -(2,2-difluoro-3-methoxy-3-oxopropyl)- $\omega$ -fluoro- (9CI) (CA  
 INDEX NAME)



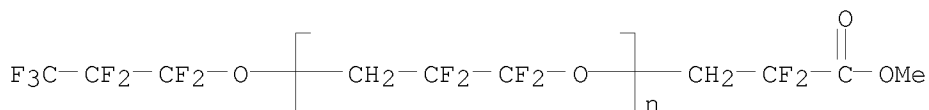
RN 99488-70-7 CAPLUS

CN Poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)],  
 $\alpha$ -(2,2-difluoro-3-methoxy-3-oxopropyl)- $\omega$ -iodo- (9CI) (CA  
 INDEX NAME)



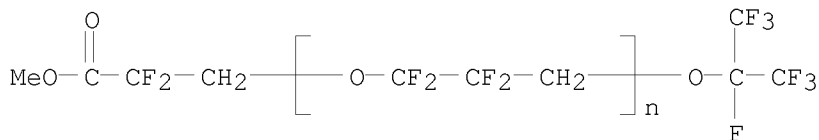
RN 99488-71-8 CAPLUS

CN Poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)],  
 $\alpha$ -(2,2-difluoro-3-methoxy-3-oxopropyl)- $\omega$ -(heptafluoropropoxy)-  
 (9CI) (CA INDEX NAME)



RN 99488-72-9 CAPLUS

CN Poly[oxy(1,1,2,2-tetrafluoro-1,3-propanediyl)],  
 $\alpha$ -(2,2-difluoro-3-methoxy-3-oxopropyl)- $\omega$ -[1,2,2,2-tetrafluoro-  
 1-(trifluoromethyl)ethoxy]- (9CI) (CA INDEX NAME)



L9 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:19352 CAPLUS

DOCUMENT NUMBER: 104:19352

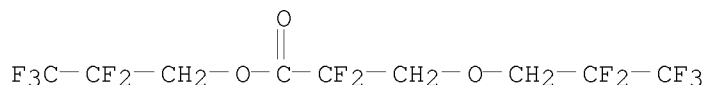
ORIGINAL REFERENCE NO.: 104:3249a,3252a

TITLE: 2,2-Difluoropropionic acid derivatives  
 INVENTOR(S): Ohsaka, Yohnosuke; Tohzuka, Takashi; Takaki, Shoji;  
 Negishi, Yoshio; Kohno, Satoru  
 PATENT ASSIGNEE(S): Daikin Kogyo Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 19 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 148490	A1	19850717	EP 1984-116103	19841221
EP 148490	B1	19900516		
R: DE, FR, GB, IT				
JP 60136536	A	19850720	JP 1983-251070	19831226
JP 01049340	B	19891024		
JP 61130254	A	19860618	JP 1984-253884	19841129
JP 02037904	B	19900828		
US 4719052	A	19880112	US 1984-684344	19841220
EP 258911	A1	19880309	EP 1987-113971	19841221
EP 258911	B1	19901031		
R: DE, FR, GB, IT				
CA 1293739	C	19911231	CA 1984-470916	19841221
JP 02223538	A	19900905	JP 1990-6575	19900116
JP 05002660	B	19930113		
CA 1318327	C2	19930525	CA 1991-616011	19910227

PRIORITY APPLN. INFO.:  
 JP 1983-251070 A 19831226  
 JP 1984-253884 A 19841129  
 CA 1984-470916 A3 19841221  
 EP 1984-116103 P 19841221

OTHER SOURCE(S): CASREACT 104:19352; MARPAT 104:19352  
 AB FCH<sub>2</sub>CF<sub>2</sub>COF (I) and other 2,2-difluoropropionic acid derivs. RCH<sub>2</sub>CF<sub>2</sub>COR<sub>1</sub> [R = Cl, Br, iodo, R<sub>2</sub>O, R<sub>2</sub>CO<sub>2</sub>, R<sub>3</sub>CH<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>O; R<sub>1</sub> = F, R<sub>2</sub>O, R<sub>4</sub>CH<sub>2</sub>O; R<sub>2</sub> = (non)halogenated aliphatic hydrocarbyl, (un)substituted aromatic hydrocarbyl;  
 R<sub>3</sub> = F, Cl, Br, iodo, R<sub>2</sub>O, R<sub>2</sub>CO<sub>2</sub>; R<sub>4</sub> = aliphatic perfluorohydrocarbyl] were prepared by ring opening of 2,2,3,3-tetrafluorooxetane (II) in the presence of a catalyst. Thus, 13 g II, 1.8 g KF, and 15 mL diglyme were stirred at 150° for 8 h to give, after distillation, 12.8 g of a product mixture containing 65 mol % I. A similar reaction of II with 28 weight% NaOMe in MeOH gave 47.5% MeOCH<sub>2</sub>CF<sub>2</sub>CO<sub>2</sub>Me.  
 IT 99497-40-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, from tetrafluorooxetane)  
 RN 99497-40-2 CAPLUS  
 CN Propanoic acid, 2,2-difluoro-3-(2,2,3,3,3-pentafluoropropoxy)-, 2,2,3,3,3-pentafluoropropyl ester (CA INDEX NAME)



L9 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1979:404937 CAPLUS  
 DOCUMENT NUMBER: 91:4937  
 ORIGINAL REFERENCE NO.: 91:923a,926a  
 TITLE: Study of polyfluoracyl fluorides formed in the electrochemical fluorination of methyl

3-methoxypropionate

AUTHOR(S): Berenblit, V. V.; Nikitin, V. A.; Sass, V. P.;  
 Senyushov, L. N.; Starobin, Yu. K.; Tsyganov, Yu. V.

CORPORATE SOURCE: USSR

SOURCE: Zhurnal Organicheskoi Khimii (1979), 15(2), 284-92  
 CODEN: ZORKAE; ISSN: 0514-7492

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB Products of electrochem. fluorination of MeOCH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Me (polyfluoroacyl  
 fluorides) were investigated by condensing them with MeOH, followed by  
 rectification of the Me esters formed and study of them via <sup>19</sup>F and H NMR  
 and mass spectra.

IT 70411-04-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 70411-04-0 CAPLUS

CN Propanoic acid, 2,2,3-trifluoro-3-(trifluoromethoxy)-, methyl ester (CA  
 INDEX NAME)

